

**CLAIMS**

1. Flooring material comprising board shaped floor elements (1) with a mainly square or rectangular shape, which floor elements (1) are provided with edges (2), a lower side (5) and a decorative upper surface (3), whereby the floor elements (1) are intended to be joined by means of separate joining profiles (10), *c h a r a c t e r i s e d* in that all four edges (2) of the floor elements (1) are provided with one notch-like groove (4) each, which grooves (4) are arranged parallel to its respective edge (2), that the joining profiles (10) are provided with lips (11) arranged in pairs, which lips (11) are intended to each be received by one of the grooves (4) so that the floor element (1) with the grooves (4) at the adjacent edges (2) will be guided or fixed vertically via the lips (11) of a joining profile (10), which lips (11) are joined by a middle section (12) of the joining profile (10) and furthermore that the grooves (4) are provided with an undercut (46) while the lips (11) are provided with hooks (16) that matches the undercut (46) whereby adjacent floor elements (1) will be guided or fixed horisontally via the undercuts (46) and the hooks (16).
2. Flooring material according to claim 1, *c h a r a c t e r i s e d* in that the grooves (4) are provided with a support (42) for the middle section (12) of the joining profiles (10).
3. Flooring material according to claim 1 or 2, *c h a r a c t e r i s e d* in that the joining profiles (10) are shaped as extended units or rolls which may be cut to the desired length, and that the length of the joining profiles (10) has a length, that before cutting, considerably exceeds the length of a floor element (1).
4. Flooring material according to any of the claims 1 - 3, *c h a r a c t e r i s e d* in that the joining profiles (10) and/or the floor elements (1) are coated with glue or double-faced adhesive tape.